§ 173.198

- (ii) Each BOP must have bottom and side joints of fully welded or seamless construction and a rigid, weatherproof top to prevent the intrusion of water (e.g., rain or snow).
- (iii) Each opening in a BOP must be fitted with a closure to prevent the intrusion of water or the release of any liquid during all loading, unloading, and transportation operations.
- (iv) In the upright position, each BOP must be leakproof and able to contain a liquid quantity of at least 300 liters (79.2 gallons) with closures open.
- (v) Inner packagings must be placed in a BOP in such a manner as to minimize the risk of breakage. Rigid inner packagings may not be placed in the same BOP with plastic film bag inner packagings unless separated from each other by rigid barriers or dividers to prevent damage to the packagings caused by load shifting during normal conditions of transportation.
- (vi) Division 6.1 or Class 7 chemotherapeutic waste, untreated cultures and stocks of infectious substances containing Risk Group 2 or 3 pathogenic organisms, unabsorbed liquids, and sharps may be transported in a BOP only if separated and secured as provided by paragraph (d)(3)(v) of this section.
- (e) Inner packagings authorized for Large Packagings, Carts, and BOPs. After September 30, 2003, inner packagings must be durably marked or tagged with the name and location (city and state) of the offeror, except when the entire contents of the Large Packaging, Cart, or BOP originates at a single location and is delivered to a single location.
- (1) Solids. A plastic film bag is authorized as an inner packaging for solid regulated medical waste transported in a Cart, Large Packaging, or BOP. Waste material containing absorbed liquid may be packaged as a solid in a plastic film bag if the bag contains sufficient absorbent material to absorb and retain all liquid during transportation.
- (i) The film bag may not exceed a volume of 175 L (46 gallons). The film bag must be marked and certified by its manufacturer as having passed the tests prescribed for tear resistance in ASTM D 1709-01, Standard Test Methods for Impact Resistance of Plastic Film by the Free-Falling Dart Method (see §171.7 of this subchapter), and for impact resistance in ASTM D 1922-00a. Standard Test Method for Propagation Tear Resistance of Plastic Film and Thin Sheeting by Pendulum Method (see §171.7 of this subchapter). The film bag must meet an impact resistance of 165 grams and a tearing resistance of 480 grams in both the parallel and perpendicular planes with respect to the length of the bag.
- (ii) The plastic film bag must be closed with a minimum of entrapped air to prevent leakage in transportation. The bag must be capable of being held in an inverted position

- with the closed end at the bottom for a period of 5 minutes without leakage.
- (iii) When used as an inner packaging for Carts or BOPs, a plastic film bag may not weigh more than 10 kg (22 lbs.) when filled.
- (2) Liquids. Liquid regulated medical waste transported in a Large Packaging, Cart, or BOP must be packaged in a rigid inner packaging conforming to the requirements of paragraph (a) of this section. Liquid materials are not authorized for transportation in inner packagings having a capacity greater than 19 L (5 gallons).
- (3) Sharps. Sharps transported in a Large Packaging, Cart, or BOP must be packaged in a puncture-resistant inner packaging (sharps container). Each sharps container exceeding 76 L (20 gallons) in volume must be capable of passing the performance tests in §178.601 of this subchapter at the Packing Group II performance level. A sharps container may be reused only if it conforms to the following criteria:
- (i) The sharps container is specifically approved and certified by the U.S. Food and Drug Administration as a medical device for reuse.
- (ii) The sharps container must be permanently marked for reuse.
- (iii) The sharps container must be disinfected prior to reuse by any means effective for the infectious substance the container previously contained.
- (iv) The sharps container must have a capacity greater than 7.57 L (2 gallons) and not greater than 151.42 L (40 gallons) in volume.

§173.198 Nickel carbonyl.

- (a) Nickel carbonyl must be packed in specification steel or nickel cylinders as prescribed for any compressed gas except acetylene. A cylinder used exclusively for nickel carbonyl may be given a complete external visual inspection instead of the pressure test required by \$180.205 of this subchapter. Visual inspection must be in accordance with CGA Pamphlet C-6 (incorporated by reference; see \$171.7 of this subchapter).
- (b) Packagings for nickel carbonyl must conform to §173.40.

[Amdt. 173–224, 55 FR 52643, Dec 21, 1990, as amended at 67 FR 51643, Aug. 8, 2002]

§ 173.199 Diagnostic specimens and used health care products.

(a) Diagnostic specimens. Except as provided in this paragraph (a), diagnostic specimens are excepted from all other requirements of this subchapter when offered for transportation or transported in accordance with this